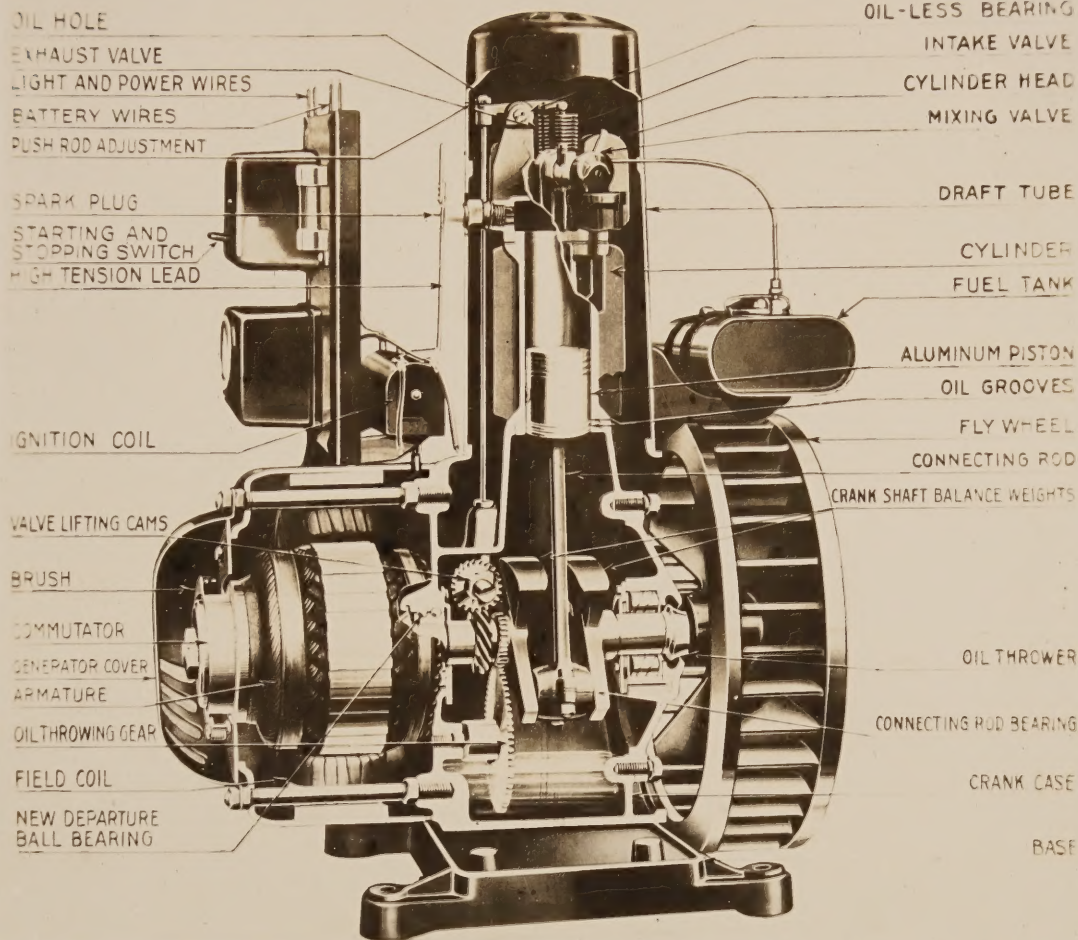
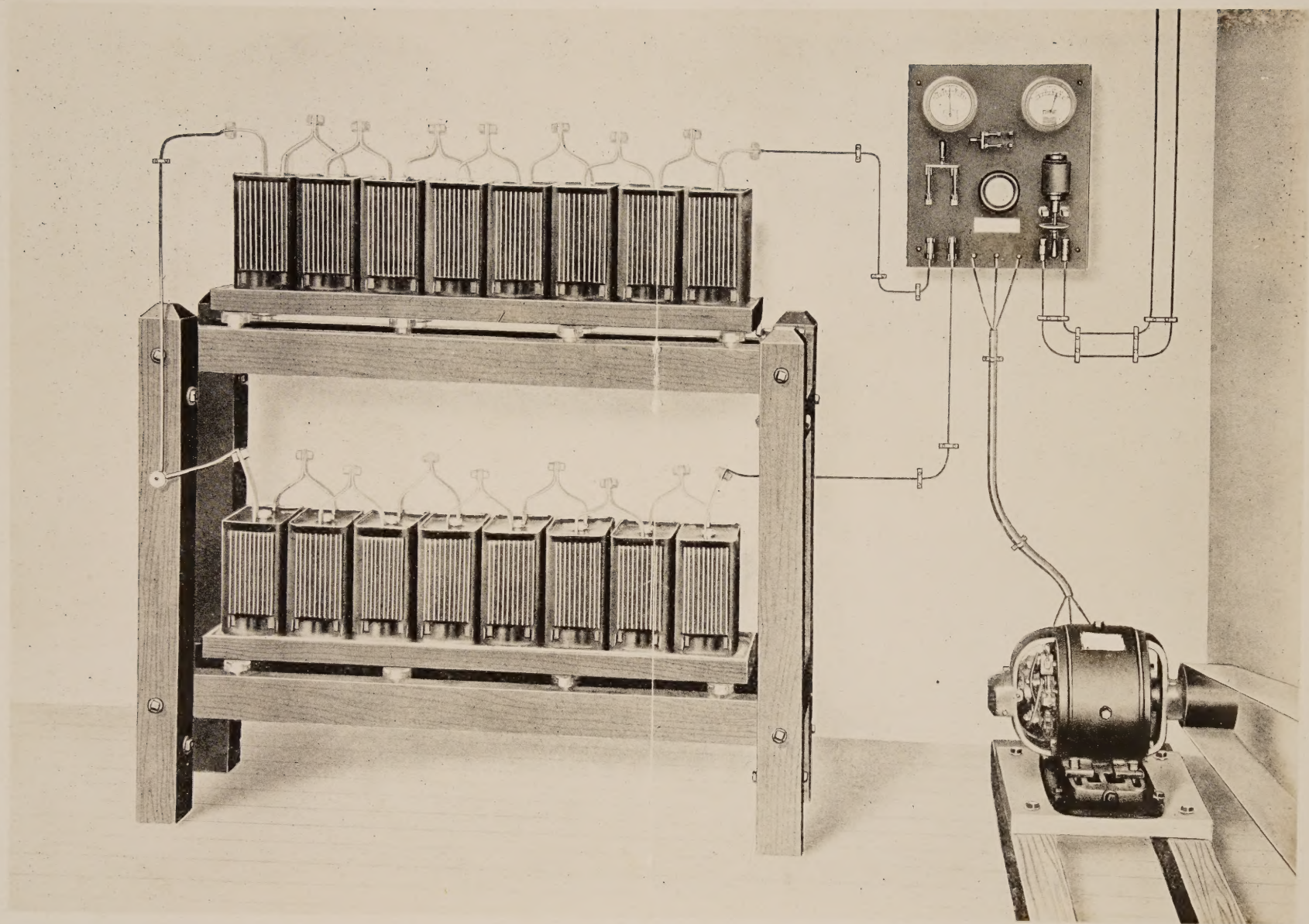




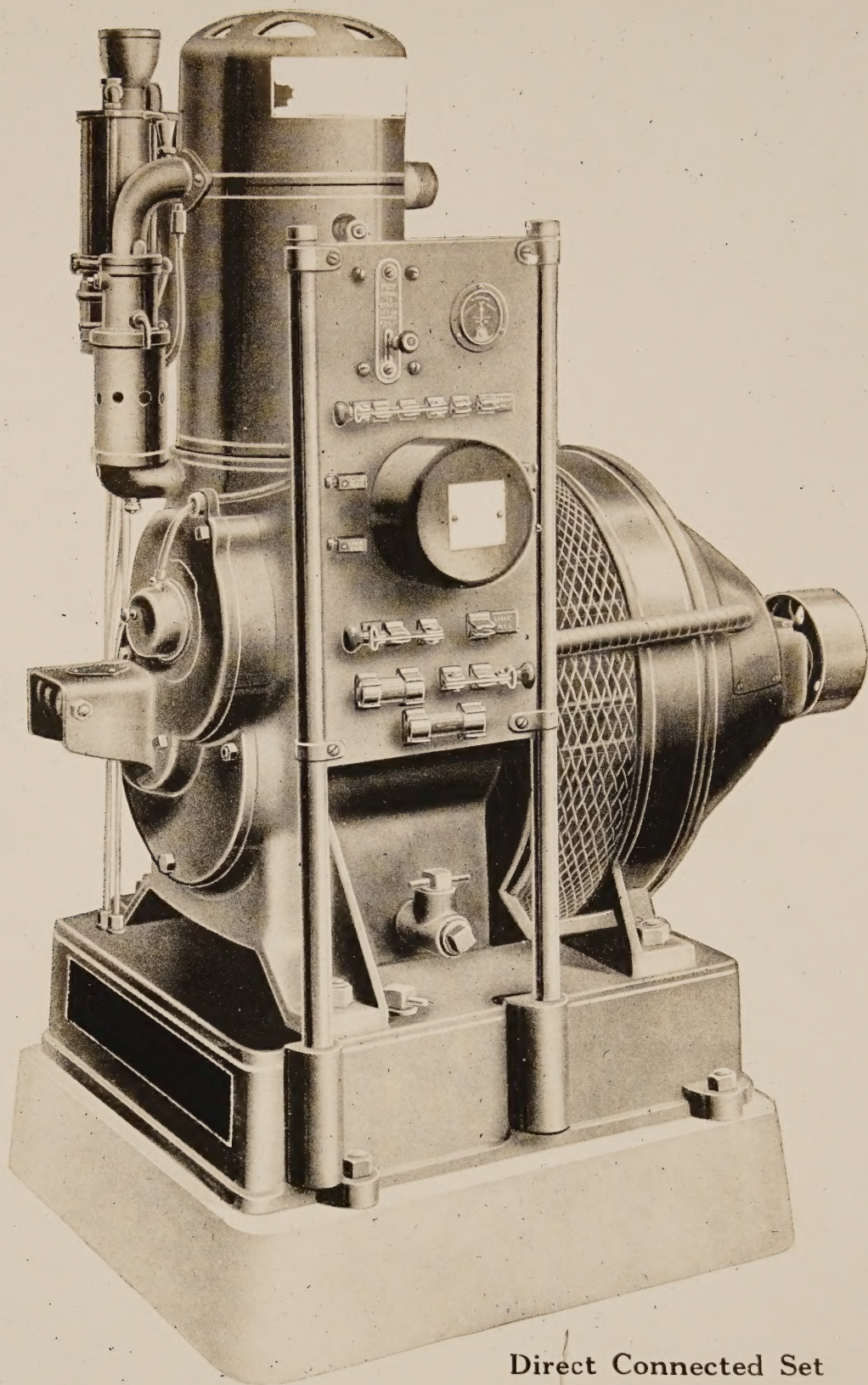
11.823-7087

Not Screened

F 1 0 4



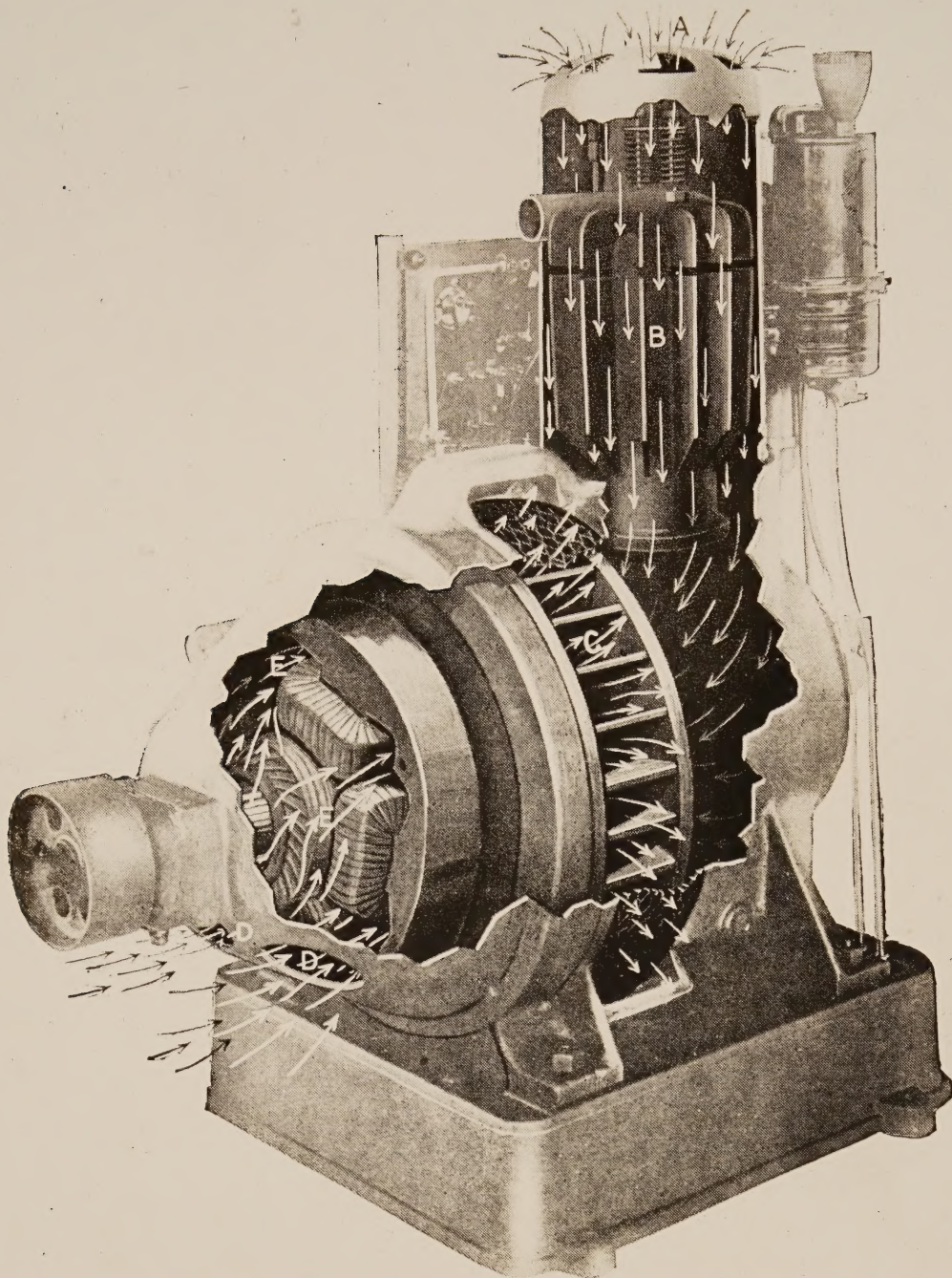
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Direct Connected Set
No. 15 DC

11.823-7102

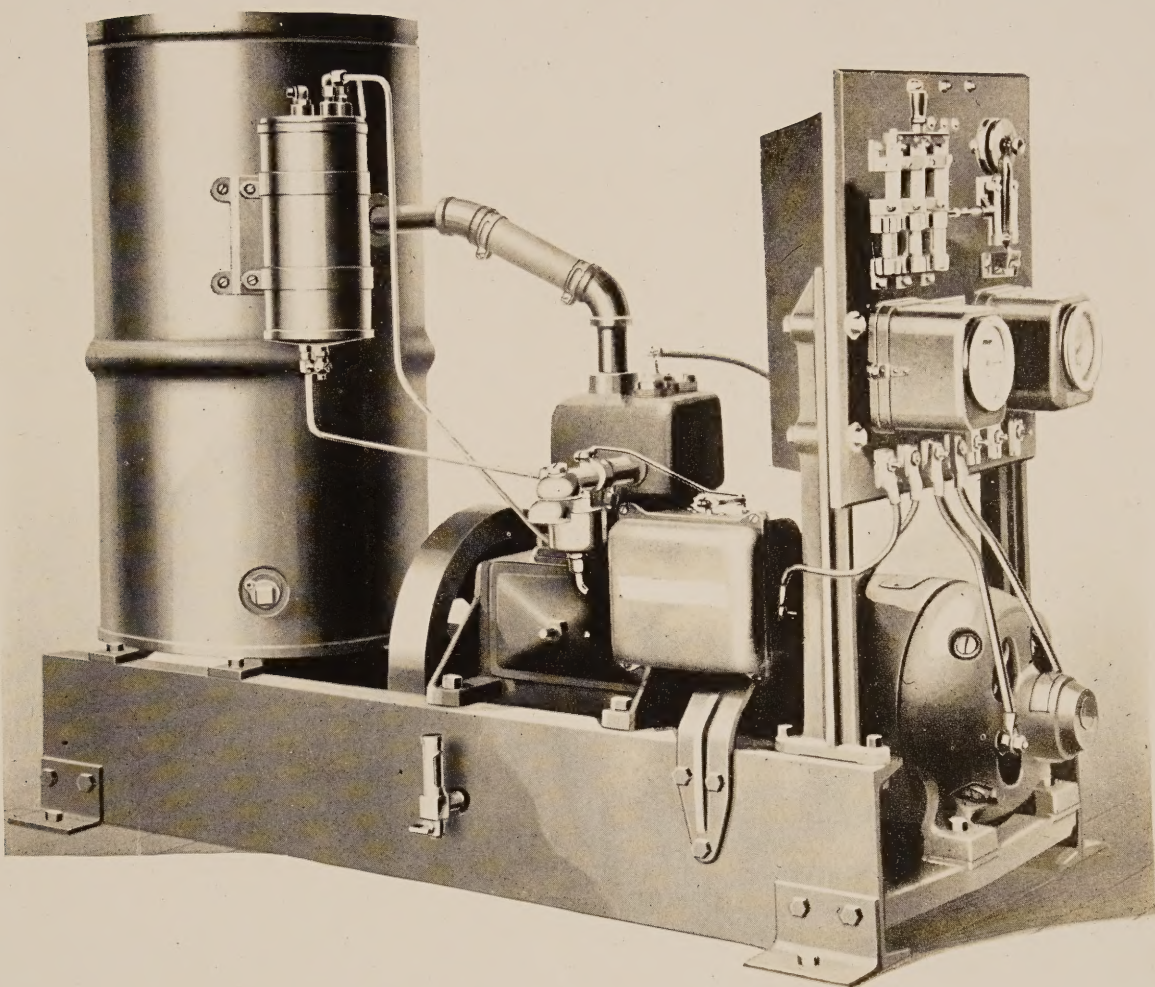
control panel starts the generator
which operates as a motor to the engine of the set



*Direct Connected Set
No. 15 DC*

*Showing Air
Ventilating System*

11.823-7101



They 20 watt lights from generator as engine is running. Sixty-two lights combining capacity of generator and battery. Twelve lights for 10 hours from battery alone.

Model A plant will light fifty 20 watt lamps for four hours continuous running, using one gallon of fuel, and at the end of the run the batteries will be fully charged, no current being required from the battery to help out on the load of 50 lamps.

This plant has all the *Full-Automatic* features described on pages 26-29; Standard Matthews Engine, General Electric Generator and Willard 16-cell Storage Battery.

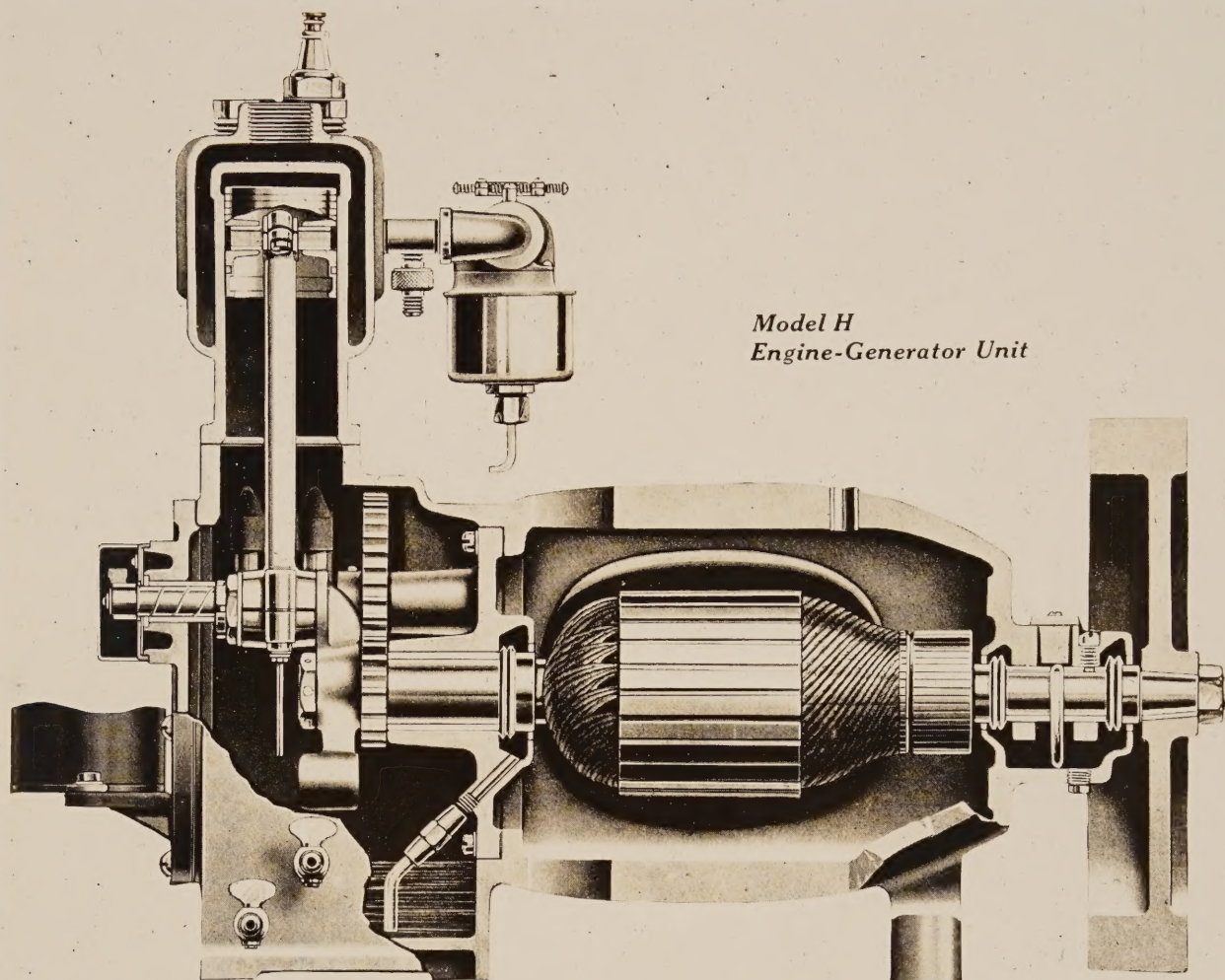
battery is furnished as standard equipment with this plant.

All Matthews plants are rated at the output of the generator and *not* on the *combined* capacity of battery *and* generator.

The generator is capable of delivering 20% more current than its rating and the engine has plenty of reserve power to handle the overload.

The Matthews Model A one kilowatt plant does quite a bit more than you would expect because it is so conservatively rated and is most efficient. Many manufacturers would rate this a 75 lamp plant.

11.823-7093



*Model H
Engine-Generator Unit*

Model H Engine-Generator Unit—Simple, Durable Design

LUBRICATION—Oil in two places. Pour a quart into the crank case of the engine and it will run for 100 hours without further oiling. Gauge shows oil level at all times. Also oil the ring-oiler bearing at flywheel end of armature occasionally.

CYLINDER—Liberal water jacketed.

IGNITION—32 volt breaker system with high tension ignition coil.

LUBRICATION—Splash for engine, ring-oiler with oil reservoir on generator.

CRANK SHAFT—Drop forged steel, pack hardened and ground.

PISTON—3 ring type, cast iron.

METAL OIL THROWERS on all bearings.

CAM SHAFT outer bearing provided with oil retainer thread in addition to felt washer.

LUBRICATING OIL capacity, 1 quart.

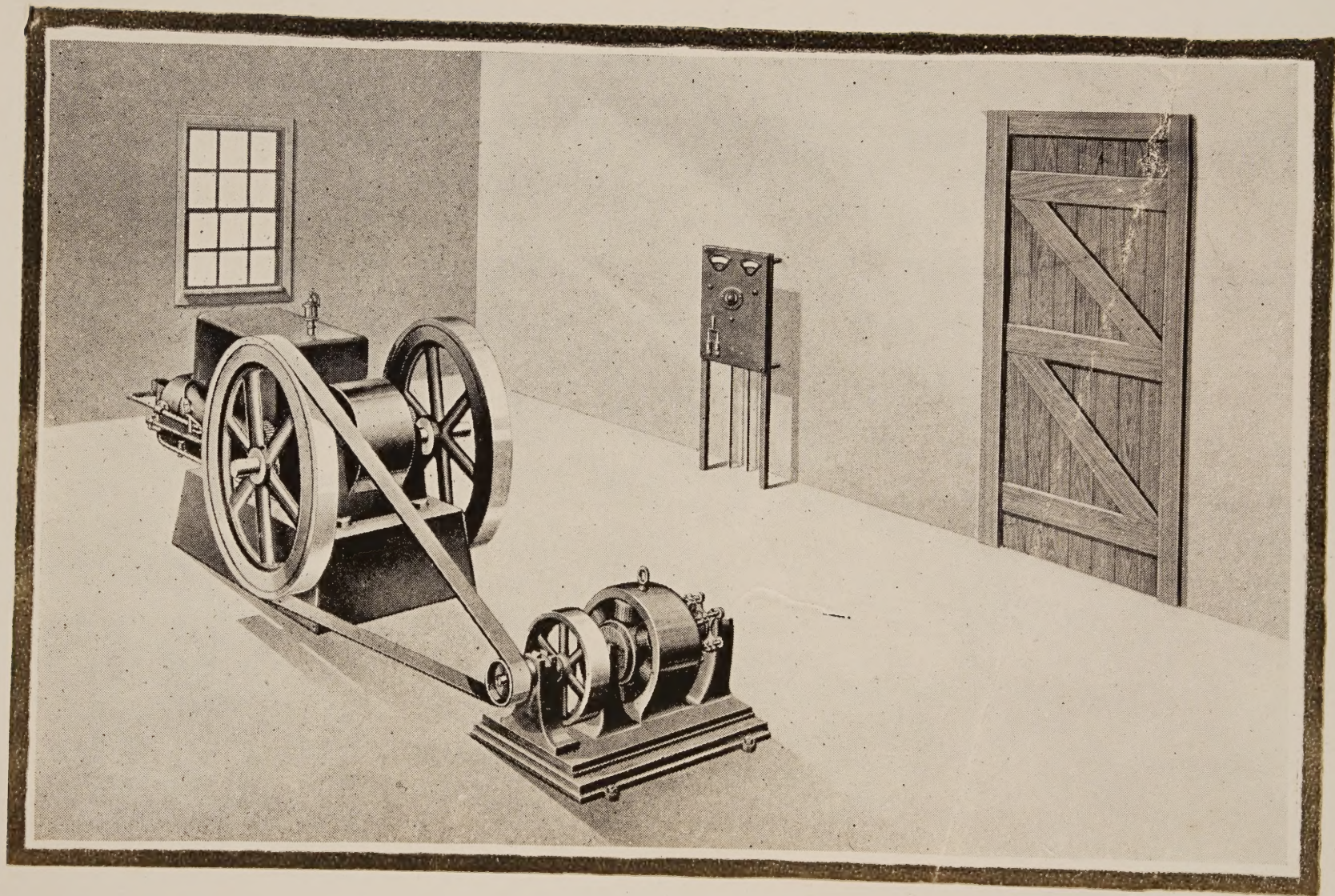
COOLING—Thermo-syphon with large water tank.

WATER TANK—16" diameter by 24" high.

CAM SHAFT—Drop forged, pack hardened and ground.

ARMATURE SHAFT—Extra large, hardened and ground.

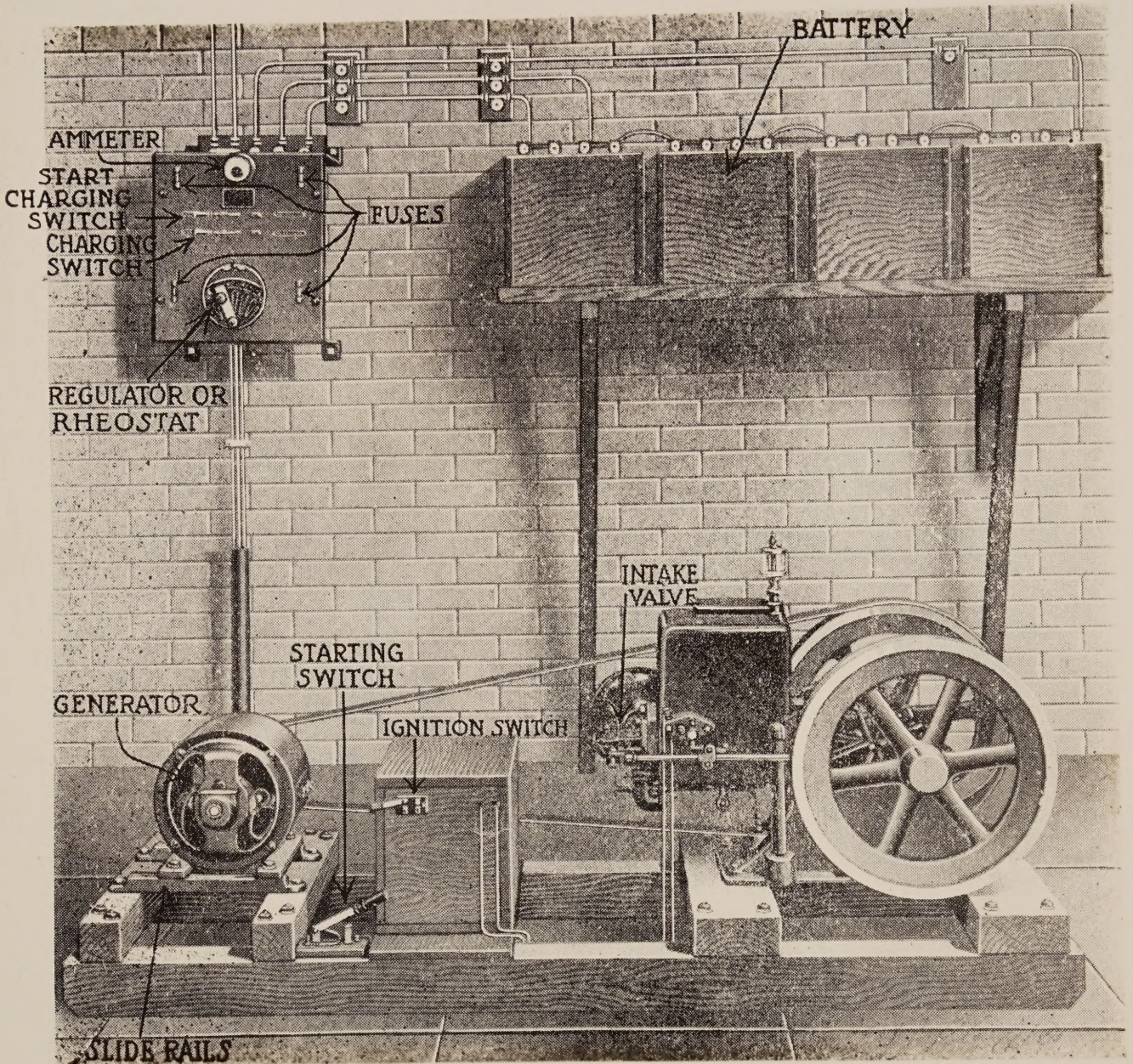
11.823-7099



POWER TRANSMISSION SYSTEM

7

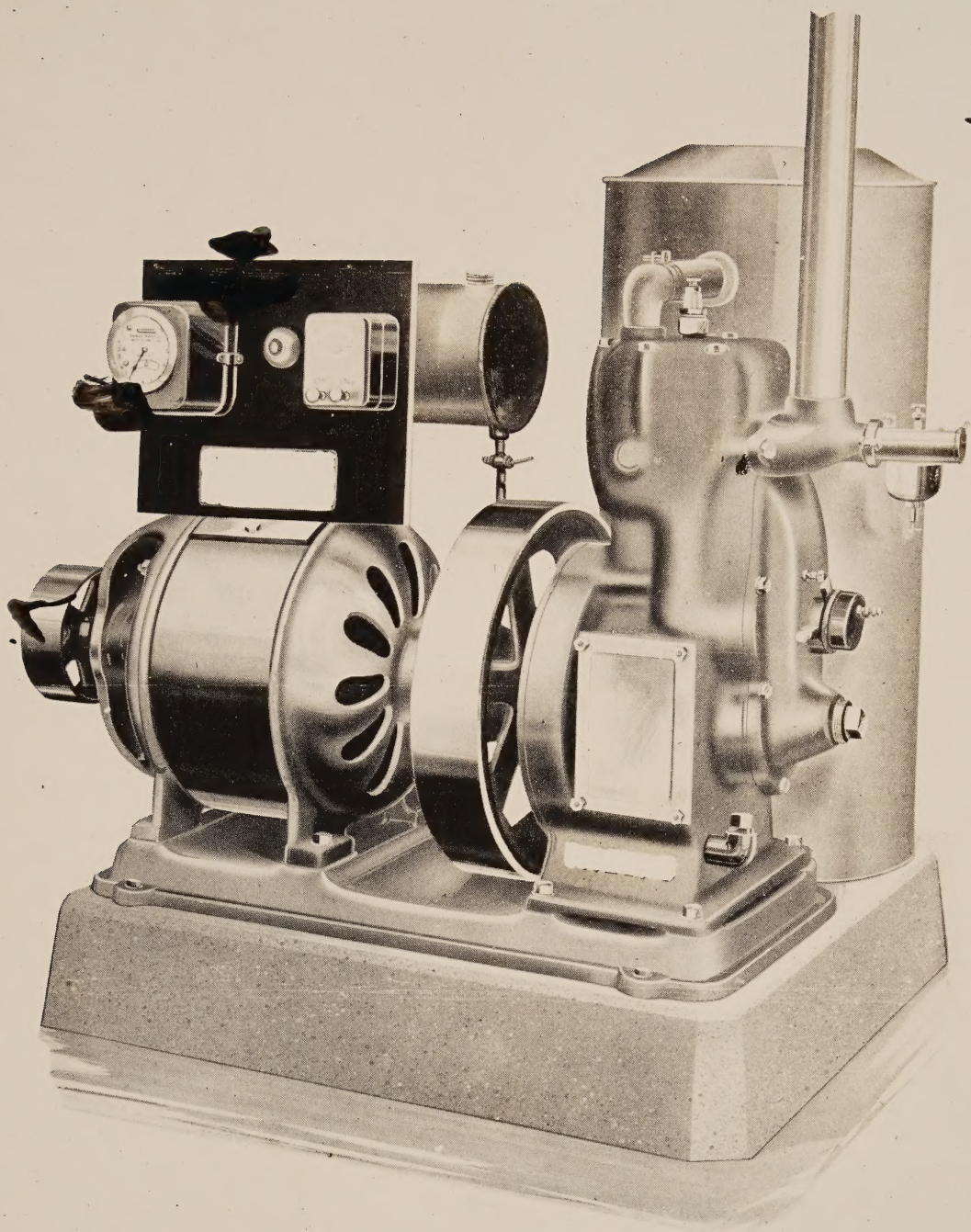
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Preparation of Engine

Next prepare your engine after carefully reading your **Engine Instruction Book**. Place belt on engine and generator, and be sure that the belt runs true; i. e., be sure that the

11.823-7078

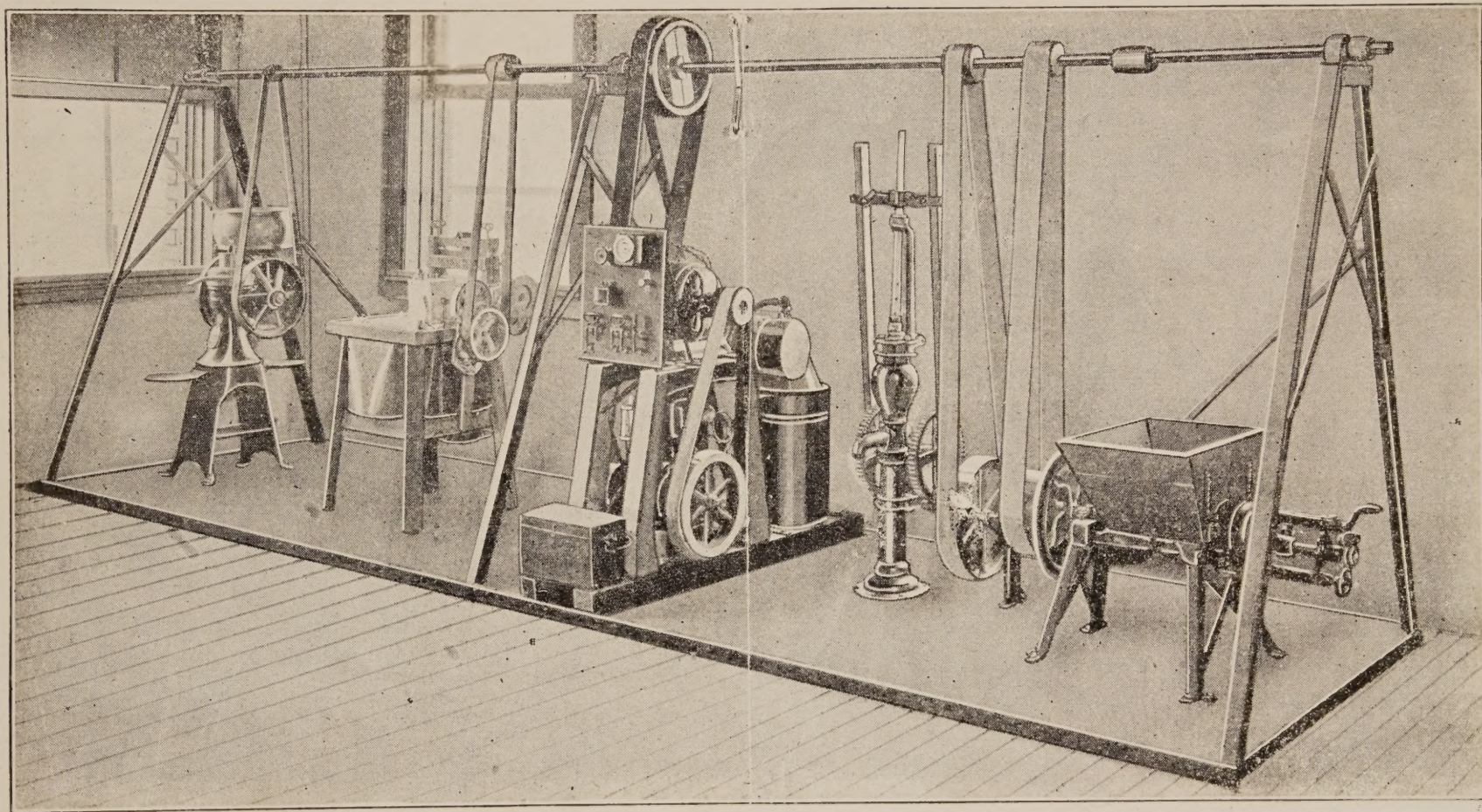


You can run your belt-driven machines either direct from the plant or from a line shaft. On machines driven either by belt or line shaft 3 horse-power is available. For those machines requiring up to $1\frac{1}{2}$

11.823-7092

labor and money-saving advantages of a CUSHMAN
 RIC LIGHT AND POWER PLANT are especially

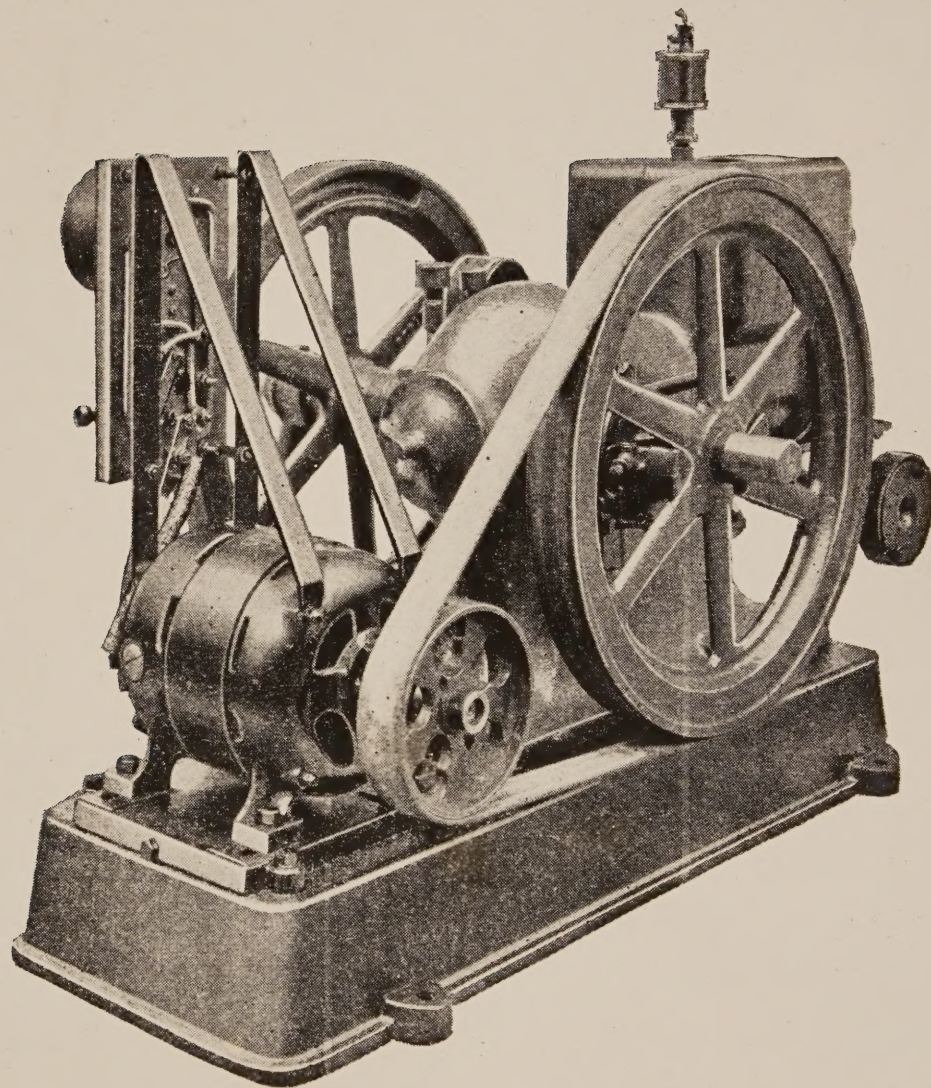
In other words, you can figure that a CUSHMAN
 RIC LIGHT AND POWER PLANT on your place



It starts the engine from the switchboard, by
 and a push of a button, and is the only starter
 ine compression and turns on and off the oil,
 and at the same time chokes the

It means that you can operate electric
 sweeper, electric irons and other conveniences
 circuit—by simply connecting up the appliance
 You can also run your grinder,
 machine, machine, pump separator

11.823-7081



Type "CBC" (Close Belt Connected) Set—Power and Light Outfit

11.823-7084